



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Applicant: P. A. Billing-Medel, *et al.*

Serial No.: 09/516,444

Filed: February 29, 2000

For: REAGENTS AND METHODS
USEFUL FOR DETECTING
DISEASES OF THE BREAST

Examiner: (not assigned)

Group Art Unit: 1641

Case No.: 5995.US.P2

CERTIFICATE OF MAILING (37 CFR
1.8 (a))

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the:

Assistant Commissioner for Patents
Box Non-Fee
Washington, D.C. 20231, on:

Date of Deposit: May 26, 2000

Kathleen Boettcher 5/26/00
Kathleen Boettcher Date

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Box Non-Fee
Washington, D.C. 20231

Dear Sir:

Applicants draw the Examiner's attention to the documents listed on the attached Form PTO 1449 and request the Examiner to consider them and make them of record in this application.

All of the listed references are available for the Examiner to review in the file of the U.S. Serial No. 08/742,067. Applicants assume the Examiner has ready access to the references already submitted with U.S. Serial No. 08/742,067 (from the parent of the present application). If the Examiner needs further copies of any references cited in U.S. Serial No. 09/516,444, please contact the Applicant's attorney, Mimi C. Goller, and she will provide copies to the Examiner.

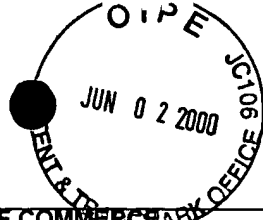
The Applicants respectfully request that the Examiner initial next to each reference listed on the enclosed Form PTO 1449 indicating that the Examiner has considered and made those references of record in this application and that a copy of the initialed Form PTO 1449 be returned to Applicants.

No charge is required for the submission of this Information Disclosure Statement under 37 C.F.R. § 1.97 (b). The Commissioner is hereby authorized to charge any additional filing fees required under 37 C.F.R. § 1.17 concerning this transmission, or to credit any overpayment to Deposit Account No. 01-0025.

ABBOTT LABORATORIES
D-0377/AP6D-2
100 Abbott Park Road
Abbott Park, Illinois 60064-6050
Phone: (847) 935-7550
FAX: (847) 938-2623

Respectfully submitted,
P. A. Billing-Medel, *et al.*

Mimi C. Goller
Mimi C. Goller
Registration No. 39,046
Attorney for Applicants



DATE: M 26, 2000 SHEET _1_ of _3_

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

5995.US.P2

APPLICANT

P. A. Billing-Medel, et al.

FILING DATE

GROUP

February 29, 2000

1641

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98 (b))

U.S.PATENT DOCUMENTS

| EXAMINER INITIAL | | PATENT NUMBER | | | | | | | ISSUE DATE | PATENTEE | CLASS | SUB CLASS | FILING DATE |
|---------------------|-----|---------------|---|---|---|---|---|---|---------------|-------------------------|-------|--------------|----------------|
| | A1 | 4 | 5 | 4 | 4 | 6 | 1 | 0 | 10/01/85 | Okamoto, et al. | | | |
| | A2 | 4 | 5 | 8 | 2 | 3 | 3 | 3 | 04/15/86 | Doering | | | |
| | A3 | 4 | 5 | 8 | 3 | 1 | 9 | 5 | 07/28/87 | Mullis, et al. | | | |
| | A4 | 4 | 6 | 8 | 3 | 2 | 0 | 2 | 07/28/87 | Mullis | | | |
| | A5 | 4 | 9 | 4 | 6 | 7 | 7 | 8 | 08/07/90 | Ladner, et al. | | | |
| | A6 | 5 | 0 | 3 | 4 | 5 | 0 | 6 | 07/23/91 | Summerton, et al. | | | |
| | A7 | 5 | 1 | 2 | 4 | 2 | 4 | 6 | 06/23/92 | Urdea, et al. | | | |
| | A8 | 5 | 1 | 4 | 2 | 0 | 4 | 7 | 08/25/92 | Summerton, et al. | | | |
| | A9 | 5 | 1 | 8 | 5 | 2 | 4 | 3 | 02/09/03 | Ullman, et al. | | | |
| | A10 | 5 | 1 | 8 | 5 | 4 | 4 | 4 | 02/09/93 | Summerton, et al. | | | |
| | A11 | 5 | 2 | 1 | 0 | 0 | 1 | 5 | 05/11/93 | Geifand, et al. | | | |
| | A12 | 5 | 2 | 5 | 4 | 4 | 5 | 8 | 10/19/93 | Mimms | | | |
| | A13 | 5 | 2 | 7 | 3 | 8 | 8 | 2 | 12/28/93 | Snitman, et al. | | | |
| | A14 | 5 | 2 | 8 | 3 | 8 | 8 | 2 | 02/01/94 | Smith, et al. | | | |
| | A15 | 5 | 2 | 9 | 0 | 9 | 2 | 5 | 03/01/94 | Fino | | | |
| | A16 | 5 | 3 | 2 | 2 | 7 | 7 | 0 | 06/21/94 | Gelfand | | | |
| | A17 | 5 | 5 | 1 | 6 | 6 | 6 | 3 | 05/14/96 | Backman, et al | | | |
| | A18 | 5 | 5 | 8 | 2 | 9 | 8 | 9 | 12/10/96 | Caskey, et al. | | | |
| | A19 | 5 | 7 | 0 | 9 | 9 | 9 | 9 | 01/20/98 | Shattuck-Eidens, et al. | | | |
| | A20 | 5 | 2 | 3 | 6 | 8 | 4 | 4 | 08/17/93 | Basset, et al. | | | |

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| | | DOCUMENT NUMBER | | | | | | | PUBLI- CATION DATE | COUNTRY OR PATENT OFFICE | CLASS | SUB CLASS | TRANS- LATION | |
|--|-----|-----------------|---|---|---|---|---|---|--------------------------|-----------------------------|-------|--------------|------------------|----|
| | | | | | | | | | | | | | YES | NO |
| | B1 | 0 | 1 | 9 | 6 | 0 | 5 | 6 | 10/01/86 | EP | | | | |
| | B2 | 0 | 2 | 7 | 3 | 1 | 1 | 5 | 07/06/88 | EP | | | | |
| | B3 | 0 | 3 | 2 | 0 | 3 | 0 | 8 | 06/14/89 | EP | | | | |
| | B4 | 0 | 3 | 2 | 6 | 1 | 0 | 0 | 08/02/89 | EP | | | | |
| | B5 | 0 | 3 | 3 | 1 | 9 | 6 | 1 | 09/13/89 | EP | | | | |
| | B6 | 0 | 3 | 7 | 3 | 2 | 0 | 3 | 06/20/90 | EP | | | | |
| | B7 | 0 | 4 | 0 | 6 | 4 | 7 | 3 | 01/09/91 | EP | | | | |
| | B8 | 0 | 4 | 2 | 4 | 6 | 3 | 4 | 05/02/91 | EP | | | | |
| | B9 | 0 | 4 | 2 | 5 | 6 | 3 | 3 | 05/08/91 | EP | | | | |
| | B10 | 0 | 4 | 3 | 9 | 1 | 8 | 2 | 07/31/91 | EP | | | | |
| | B11 | 0 | 4 | 7 | 3 | 0 | 6 | 5 | 03/04/92 | EP | | | | |
| | B12 | 0 | 6 | 8 | 4 | 3 | 1 | 5 | 11/29/95 | EP | | | | |
| | B13 | 8 | 4 | 0 | 3 | 5 | 6 | 4 | 09/1/84 | PCT | | | | |
| | B14 | 9 | 2 | 1 | 0 | 5 | 0 | 5 | 06/25/92 | PCT | | | | |
| | B15 | 9 | 2 | 1 | 1 | 3 | 8 | 8 | 07/09/92 | PCT | | | | |
| | B16 | 9 | 2 | 2 | 0 | 7 | 0 | 2 | 11/26/92 | PCT | | | | |
| | B17 | 9 | 3 | 2 | 2 | 4 | 6 | 1 | 11/11/93 | PCT | | | | |
| | B18 | 9 | 5 | 1 | 1 | 9 | 9 | 5 | 05/04/95 | PCT | | | | |
| | B19 | 9 | 5 | 2 | 0 | 6 | 8 | 1 | 08/03/95 | PCT | | | | |
| | B20 | 9 | 6 | 4 | 1 | 1 | 7 | 9 | 12/19/96 | PCT | | | | |

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE

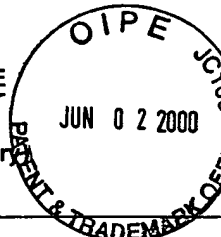
ATTY. DOCKET NO.

SERIAL NO.

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98 (b))



5995.US.P2

APPLICANT

P. A. Billing-Medel, et al.

FILING DATE

February 29, 2000

GROUP

1641

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

| | | | | | | | | | | | | | | |
|-----|---|---|---|---|---|---|---|----------|-----|--|--|--|--|--|
| B21 | 9 | 5 | 1 | 1 | 9 | 2 | 3 | 05/04/95 | PCT | | | | | |
| B22 | 9 | 5 | 1 | 5 | 3 | 3 | 4 | 06/08/95 | PCT | | | | | |
| B23 | 9 | 6 | 1 | 4 | 8 | 7 | 7 | 05/23/96 | PCT | | | | | |
| B24 | 9 | 8 | 1 | 8 | 9 | 4 | 5 | 05/07/98 | PCT | | | | | |
| B25 | 9 | 8 | 4 | 2 | 7 | 3 | 8 | 10/01/98 | PCT | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

| | | | |
|-----|--|---|--|
| C1 | | USSN 07/246,688 (NTIS ORDER NO. PAT-APPL-7-246,688 (1989) | |
| C2 | | L. Angerer, et al., <i>Methods in Cell Biology</i> , 35:37-71 (1991) | |
| C3 | | S.B.P. Athauda, et al., <i>Journ of Biochemistry</i> , 113(6):742-746 (1993) | |
| C4 | | S. Braxton, et al., <i>Biochemistry</i> , 31:7796-7801 (1992) | |
| C5 | | P. Chomczynski, <i>Analytical Biochemistry</i> , 201:134-139 (1992) | |
| C6 | | S.P.C. Cole, et al., <i>Monoclonal Antibodies and Cancer Therapy</i> , Alan R. Liss, Inc., New York, NY, 77-96 (1985) | |
| C7 | | J. Compton, <i>Nature</i> , 350(6313):91-92 (1991) | |
| C8 | | M. Cooney, et al., <i>Science</i> , 241:456-459 (1988) | |
| C9 | | H. Davis, et al., <i>Human Gene Therapy</i> , 4:733-740 (1993) | |
| C10 | | H. Davis, et al., <i>Human Molecular Genetics</i> , 2(11):1847-1851 (1993) | |
| C11 | | P. B. Dervan, et al., <i>Science</i> , 251:1360-1363 (1991) | |
| C12 | | P. L. Felgner, et al., <i>Proc. Natl. Aca. Sci. USA</i> , 84:7413-7417 (1987) | |
| C13 | | J. W. Fickett, <i>Nucleic Acids Research</i> , 10(17):L5303-5318 (1982) | |
| C14 | | E. R. Frykberg, et al., <i>Cancer</i> , 74:350-361 (1994) | |
| C15 | | Y. Gluzman, <i>Cell</i> , 23:175-182 (1981) | |
| C16 | | F. L. Graham, et al., <i>J. Gen. Virol.</i> , 36:59-72 (1977) | |
| C17 | | J. C. Guatelli, <i>Proc. Natl. Acad. Sci. USA</i> , 87:1874-1878 (1990) | |
| C18 | | J. R. Harris, et al., <i>Cancer: Principles and Practice of Oncology</i> , 4 th Ed., 1264-1332 (1993) | |
| C19 | | P. Hawley-Nelson, <i>Focus</i> , 15(3):73-79 (1993) | |
| C20 | | U. Hellman, et al., <i>Analytical Biochemistry</i> , 224:451-455 (1995) | |
| C21 | | D. Hess, et al., <i>Methods: A Companion to Methods in Enzymology</i> , 6:227-238 (1994) | |
| C22 | | J. Hodgson, <i>Bio/Technology</i> , 9:19-21 (1991) | |
| C23 | | G. N. Hortobagyi, et al., <i>CA-A Cancer Journal for Clinicians</i> , 45:199-226 (1995) | |
| C24 | | K. Q. Hu, et al., <i>Virology</i> , 181:721-726 (1991) | |
| C25 | | S. R. Kain, et al., <i>Biotechniques</i> , 17(5):982-987 (1994) | |
| C26 | | N. Kato, et al., <i>Journ of Virology</i> , 61(7):2182-2191 (1987) | |
| C27 | | Kohler, et al., <i>Nature</i> , 256:495-497 (1975) | |
| C28 | | D. Kozbor, et al., <i>Immunology Today</i> , 4(3):72-79 (1983) | |
| C29 | | B. Krattiger, et al., <i>Anal. Chem.</i> , 66:1-8 (1994) | |
| C30 | | J. S. Lee, et al., <i>Nucleic Acids Research</i> , 6(9):3073-3091 (1979) | |
| C32 | | R. L. Marshall, et al., <i>PCR Methods and Applications</i> , 4:80-84 (1994) | |
| C32 | | B. M. Mechler, et al., <i>Methods in Enzymology</i> , 152:241-248 (1987) | |
| C33 | | L. T. Mimms, et al., <i>Virology</i> , 176:604-619 (1990) | |
| C34 | | H. Okano, et al., <i>Journ. of Neurochemistry</i> , 56:560-567 (1991) | |
| C35 | | K. Pantel, et al., <i>Onkologie</i> , 18:394-401 (1995) | |
| C36 | | P. A. Price, et al., <i>The Journ. of Biol. Chem.</i> , 244(4):917-923 (1969) | |
| C37 | | X. Qui, et al., <i>Journ of Immunology</i> , 156:3350-3356 (1996) | |
| C38 | | J. Ros nfeld, et al., <i>Analytical Biochemistry</i> , 203:173179 (1992) | |

RECEIVED
 JUN - 6 2000
 TC 1310 MA
 ROOM

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

5995.US.P2

APPLICANT

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

JUN 02 2000

P. A. Billing-Medel, et al.

FILING DATE

GROUP

(Use several sheets if necessary)

February 29, 2000

1641

(37 CFR 1.98 (b))

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

| | |
|-----|--|
| C39 | J. Sambrook, et al., <i>Molecular Cloning: A Laboratory Manual</i> , 2 nd Ed., Cold Spring Harbor Laboratory Press, (1989) |
| C40 | R. T. Schimke, et al., <i>Cell</i> , 37:705-713 (1984) |
| C41 | N. T. Thuong, et al., <i>Tetrahedron Letters</i> , 29(6):5905-5908 (1988) |
| C42 | V. Van Heyningen, <i>Methods in Enzymology</i> , 121:472-481 (1986) |
| C43 | G. T. Walker, et al., <i>Clinical Chemistry</i> , 42(1):9-13 (1996) |
| C44 | M.S. Wilm, et al., <i>International Journal of Mass Spectrometry and Ion Processes</i> , 136:167-180 (1994) |
| C45 | I. A. Wilson, et al., <i>Cell</i> , 37:767-778 (1984) |
| C46 | J. A. Wolff, et al., <i>Biotechniques</i> , 11:474-485 (1991) |
| C47 | C. J. Wright, et al., <i>Lancet</i> , 346:29-32 (1995) |
| C48 | L. Hillier, et al., "The WashU-Merck EST Project", AC:W69838, Abstract (1996) |
| C49 | L. Hillier, et al., "The WashU-Merck EST Project", AC:W72838, Abstract (1996) |
| C50 | M. K. Schwartz, <i>Scandinavian Journal of Clinical and Lab. Investigation</i> , 55(221):5-14 (1995) |
| C51 | Jacobs, et al., "Clinical Use of Tumor Markers in Oncology", <i>Curr. Prob. Cancer</i> , 299-350 (1991) |
| C52 | Pantel, et al., "Methods for Detection of Micrometastatic Carcinoma Cells in Bone Marrow, Blood and Lymph Nodes," <i>Onkologie</i> , 18:394-401 (1995) |
| C53 | Schwartz, et al., <i>Cancer: Principles & Practice of Oncology</i> , 1(4 th Ed.):531-542 (1992) |
| C54 | Adams, et al., "AA340069", <i>Nature</i> , 377(6547 Suppl):3-174 (1995) |
| C55 | Hillier, et al., R75793, June 1995 |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449)